

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/18639

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04R 3/00,5/00,27/00; G06F 17/00;G06F 17/60
US CL : 381/77,79,82; 700/94;705/43,35

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 381/77,79,82; 700/94;

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
IEEE Explore

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0101360 A1 (SCHRAGE) 01 August 2002 (01.08.2002), Abstract, (page 2, paragraphs 0024-0030) (page 3, paragraphs 0056-0057) (paragraphs 0099-0101)	1,2,4-6,10-13,15-30
Y	US 6,229,899 B1 (NORRIS et al.) 08 May 2001 (08.05.2001), column 4, line 66-column 57	7-9
Y	US 6,771,785 B2 (POMPEI) 03 August 2004 (04.08.2004), abstract, Figures 1 and 2	14
A	US 5,662,190 A (ABE) 02 September 1997 (02.09.1997)	
A	US 2001/0007591 A1 (POMPEI) 12 July 2001 (12.07.2001)	
A	US 6,666,374 B1 (GREEN et al.) 23 December 2003 (23.12.2003), columns 4-6 specifically column 5, line 52-column 6, line 6	
A	EP 0 973 152 A2 (MASSACHUSETTS INSTITUTE OF TECHNOLOGY) 19 January 2000 (19.01.2000), abstract, paragraphs 0007-0012)	

☐ Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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document member of the same patent family

Date of the actual completion of the international search

15 February 2005 (15.02.2005)

Date of mailing of the international search report

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